

FIG. 1

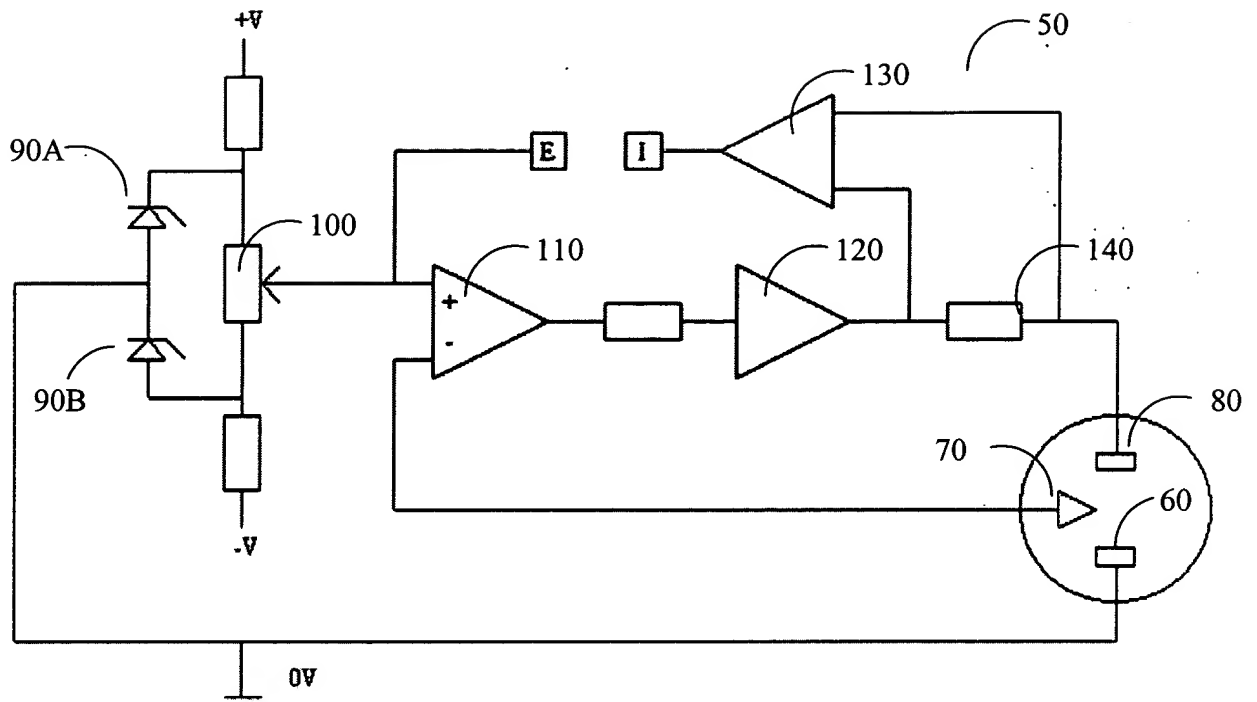
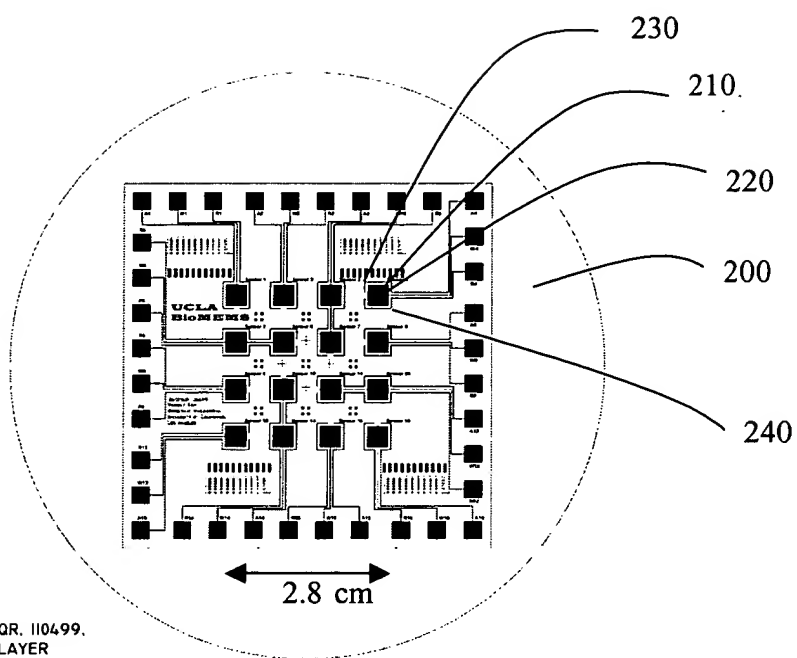


FIG. 2

Fig. 3

3600SQR, 110499,
GOLD LAYER



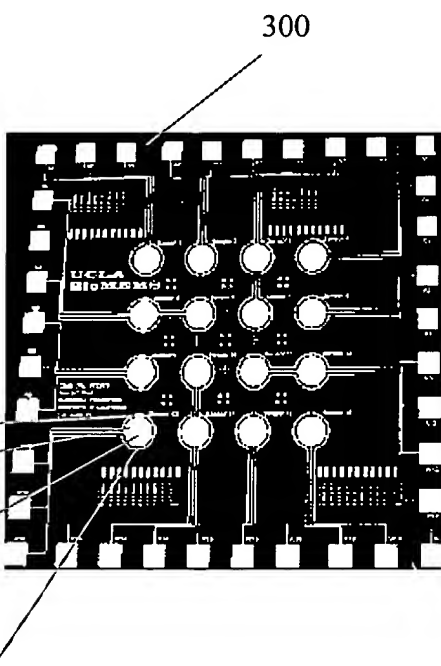
340

320

310

330

Fig. 4



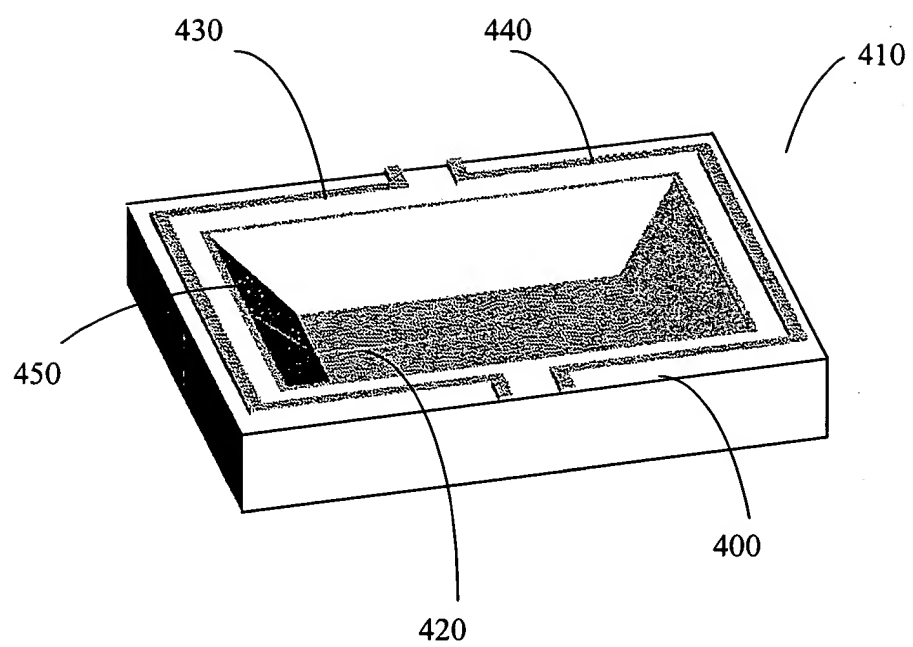


Fig. 5

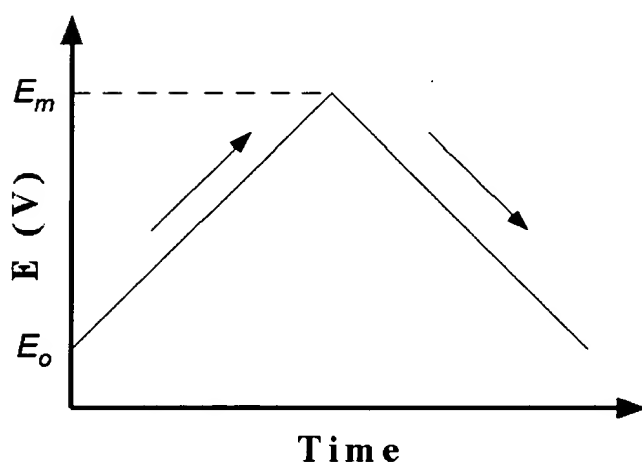


Fig. 6

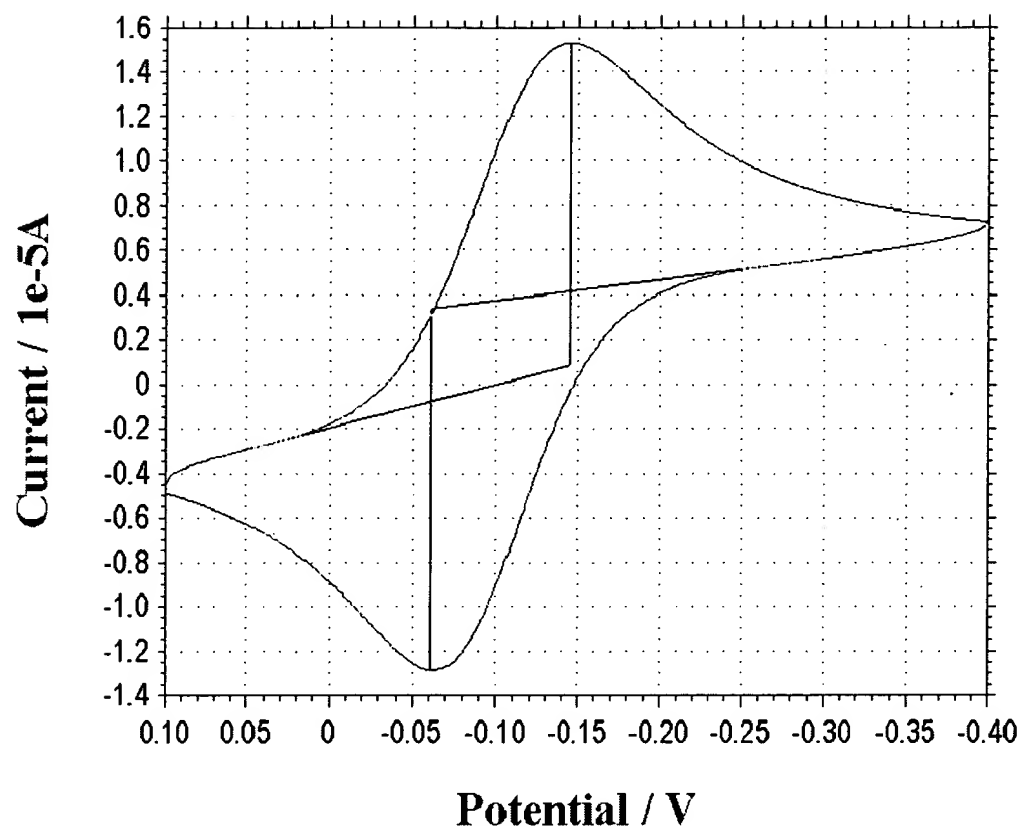


Fig. 7

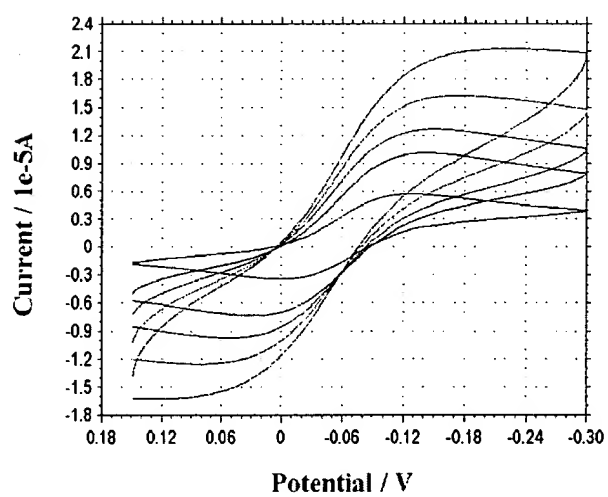


Fig. 8

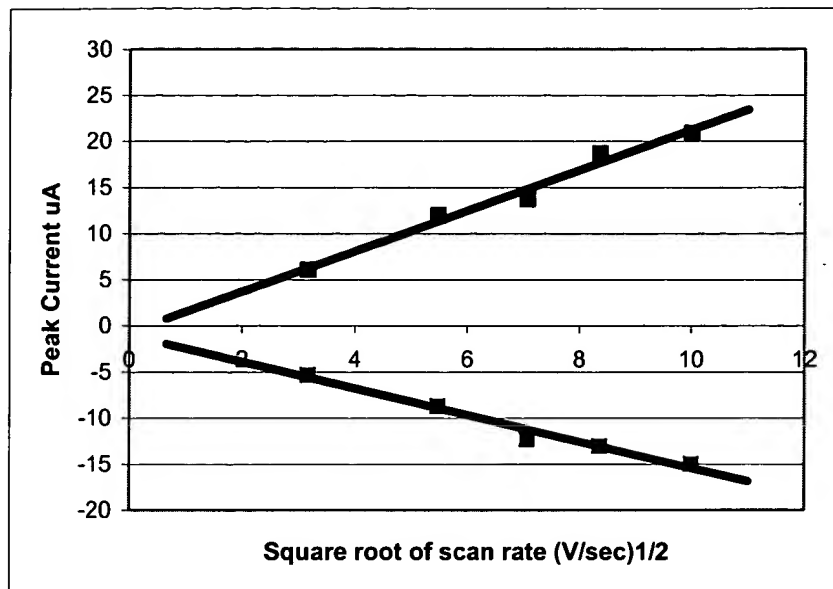


Fig. 9

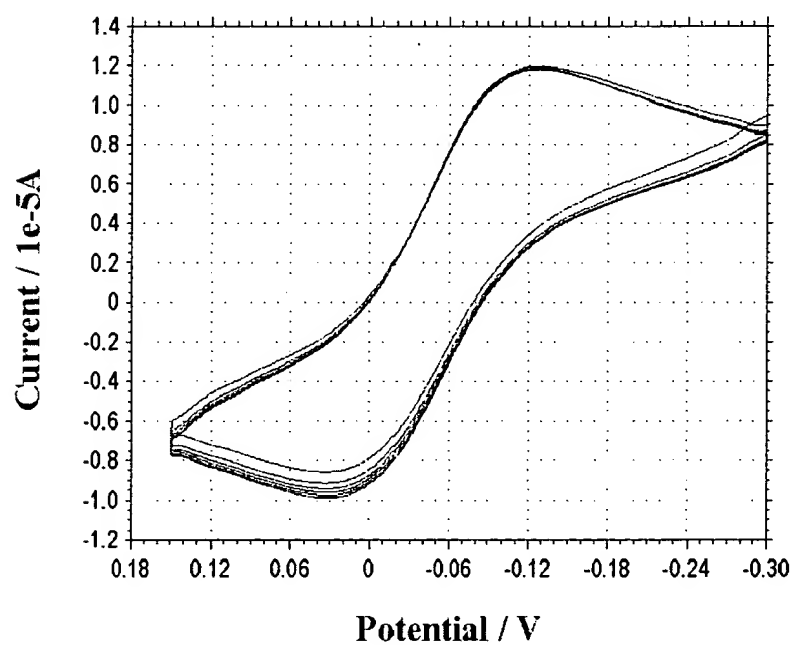


Fig. 10

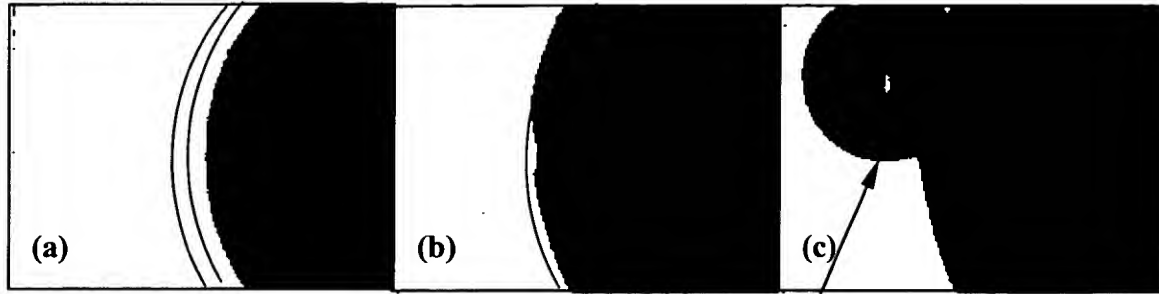


Fig. 11

465

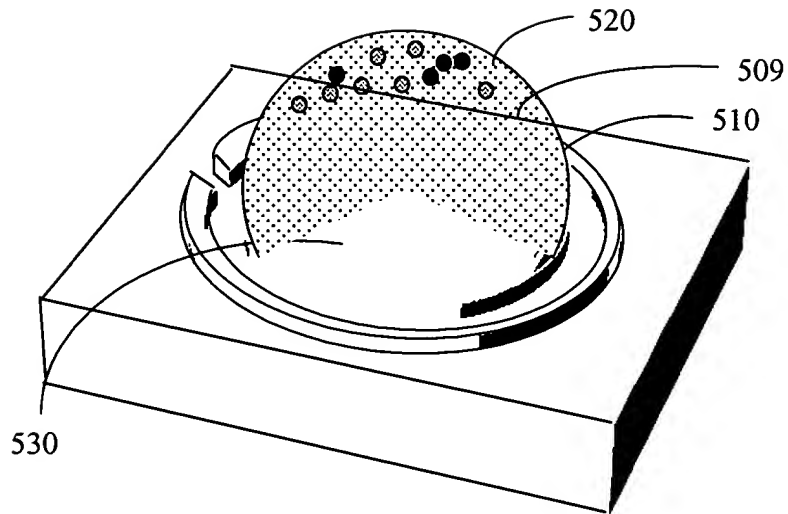


Fig. 12

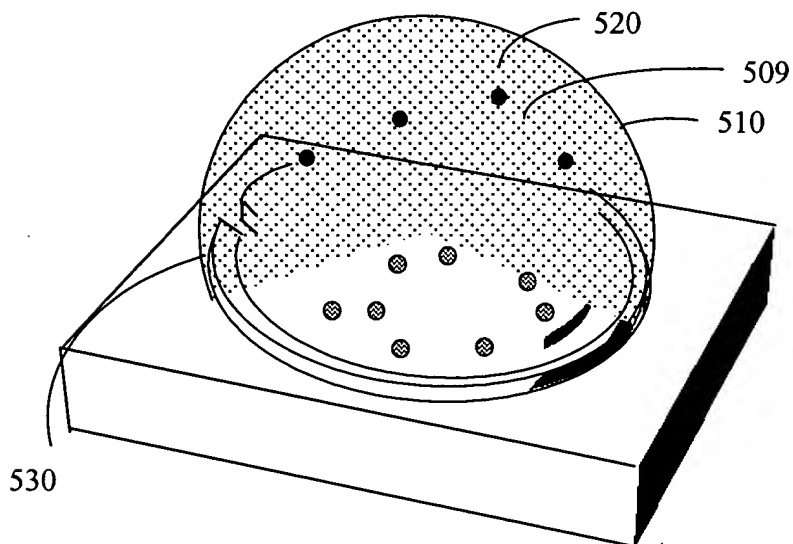


Fig. 13

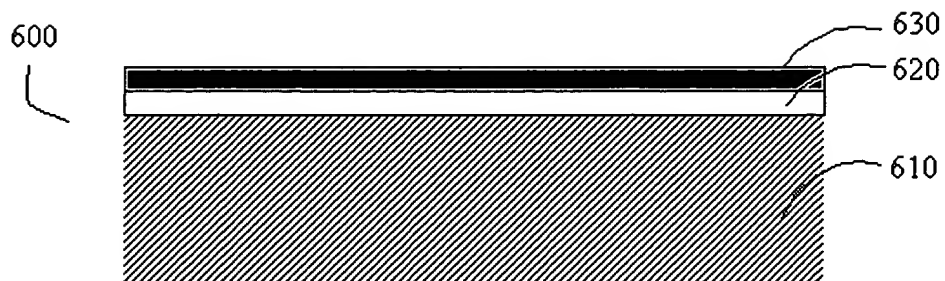


Fig. 14

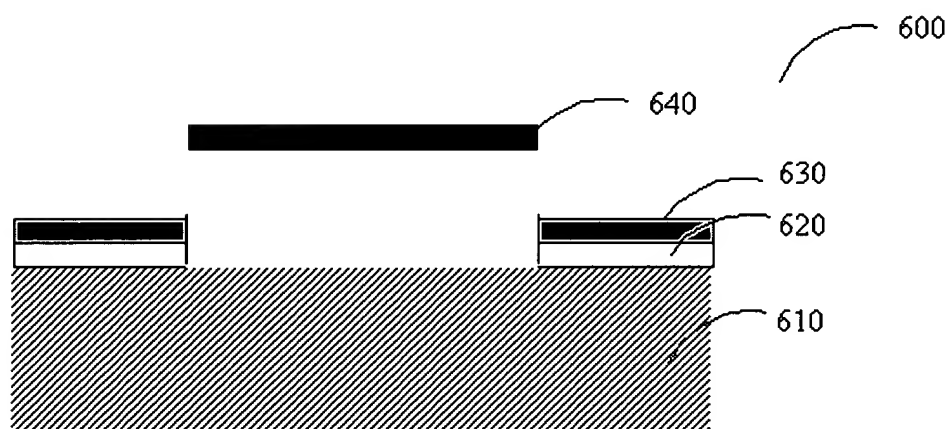


Fig. 15

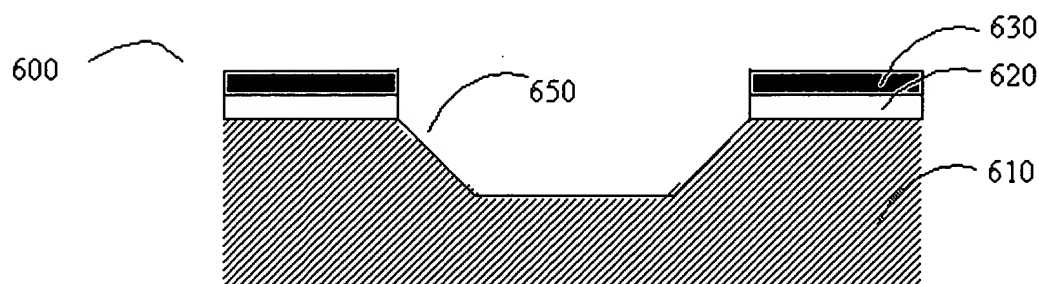


Fig. 16

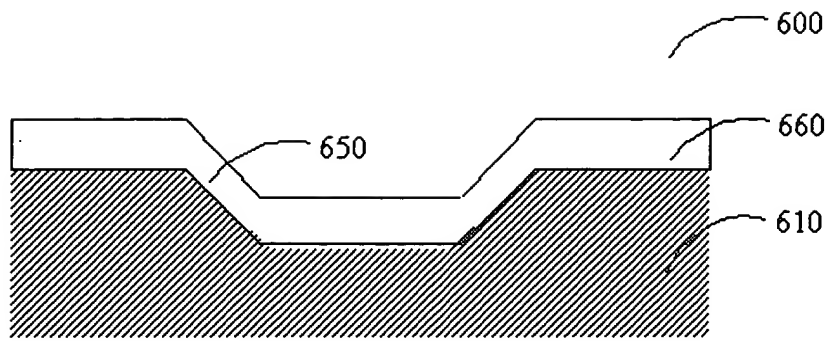


Fig. 17

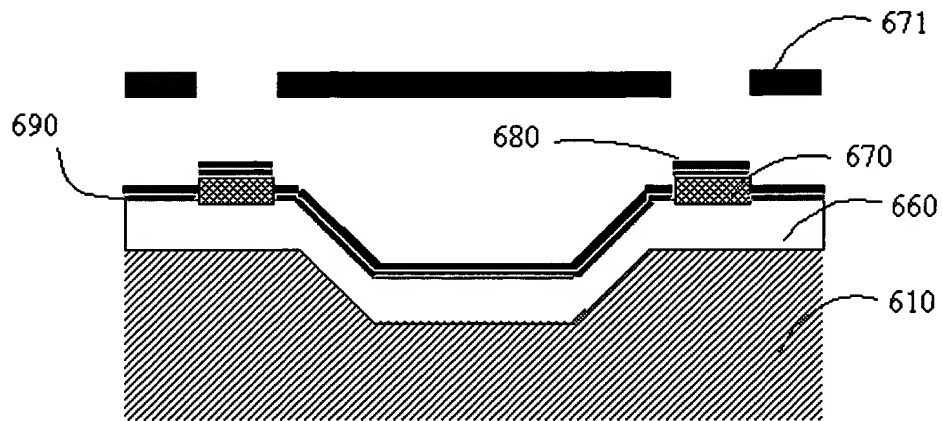


Fig. 18

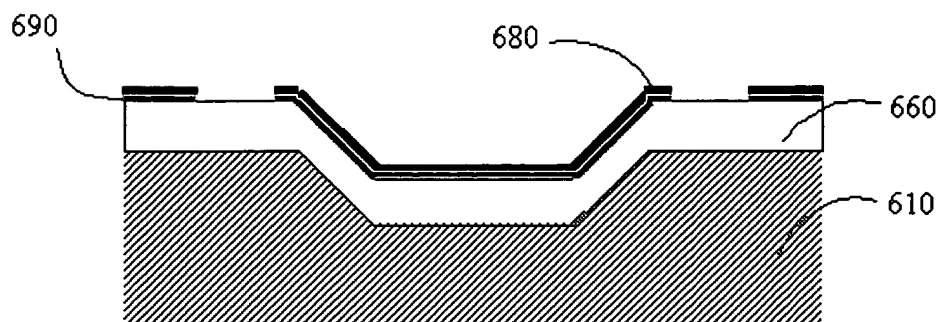


Fig. 19

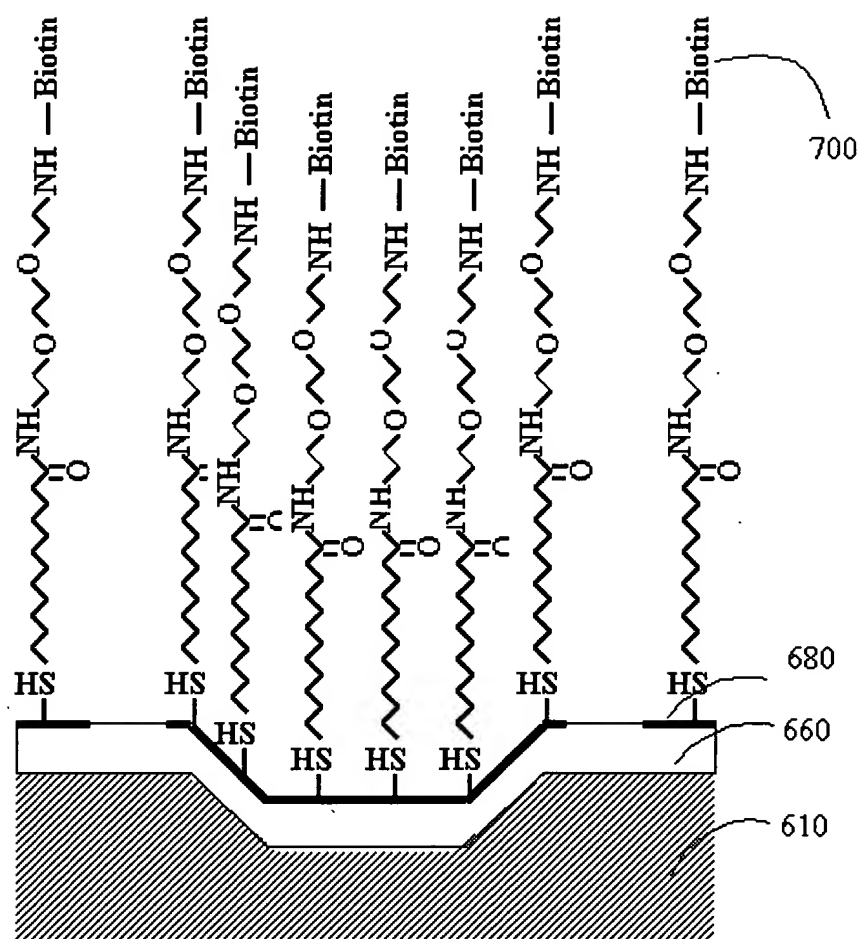


Fig. 20

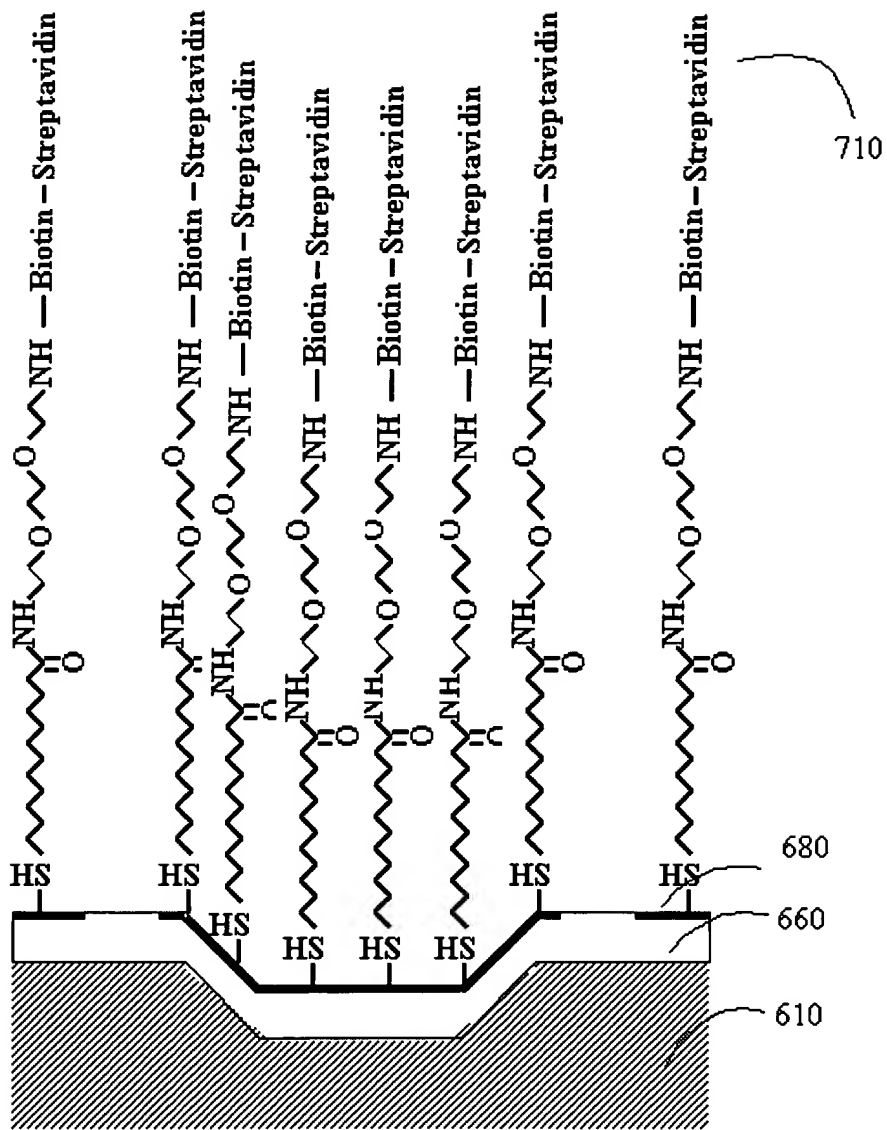


Fig. 21

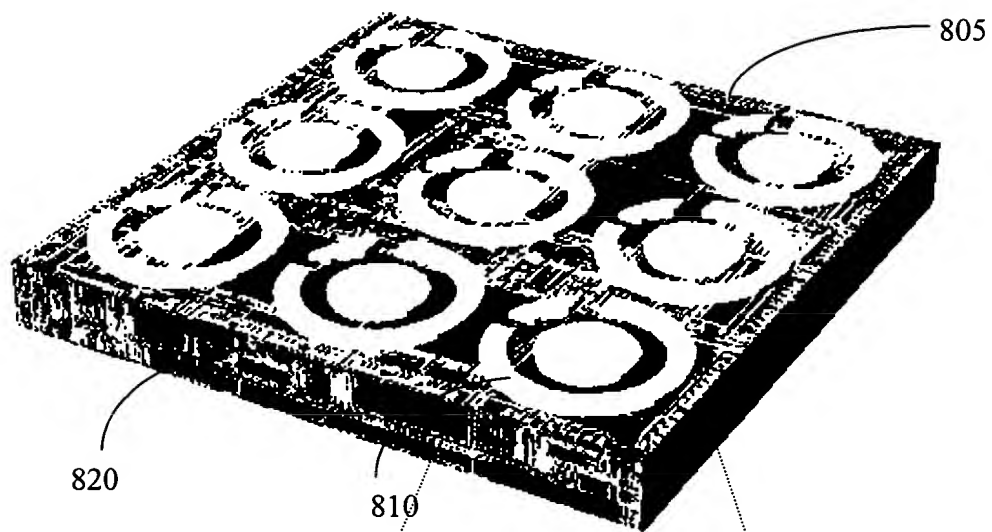


Fig. 23

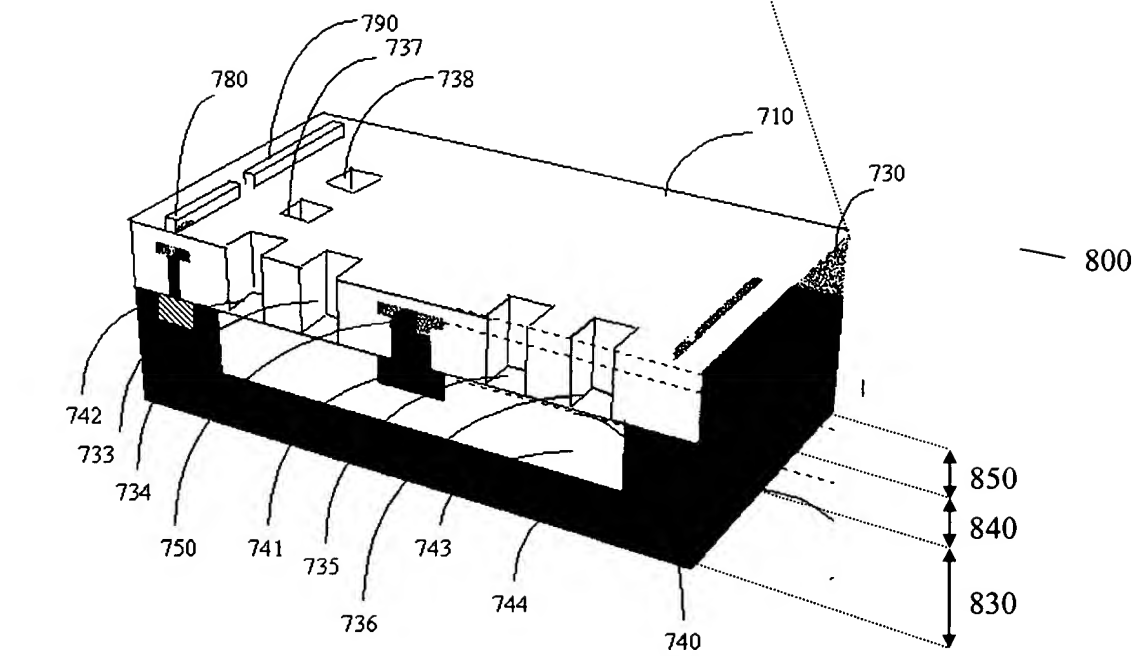


Fig. 24

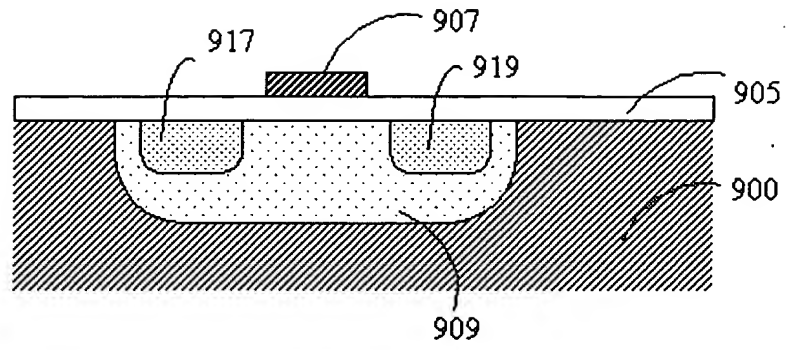


Fig. 25

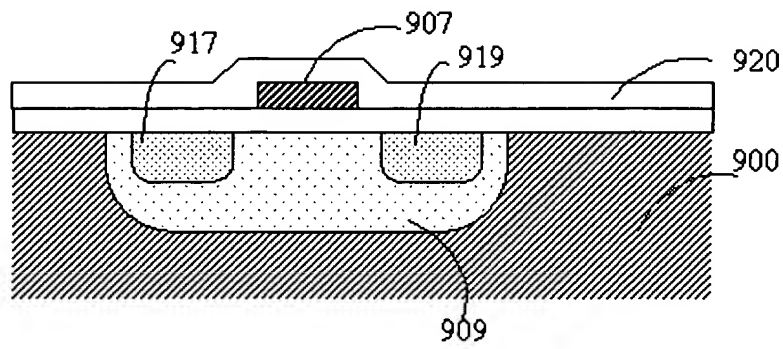


Fig. 26

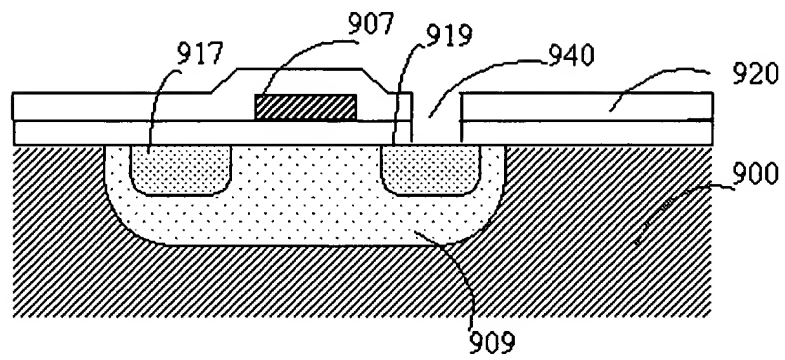


Fig. 27

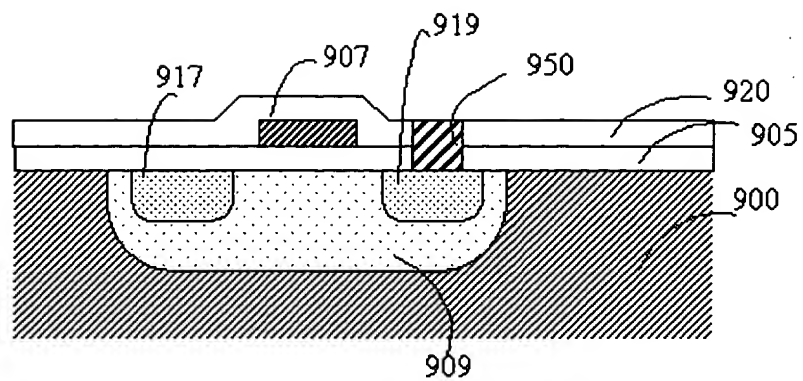


Fig. 28

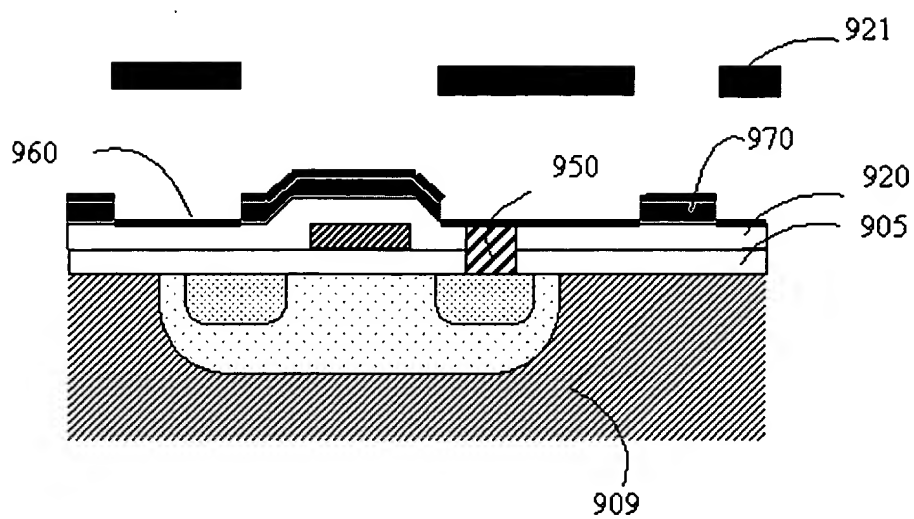


Fig. 29

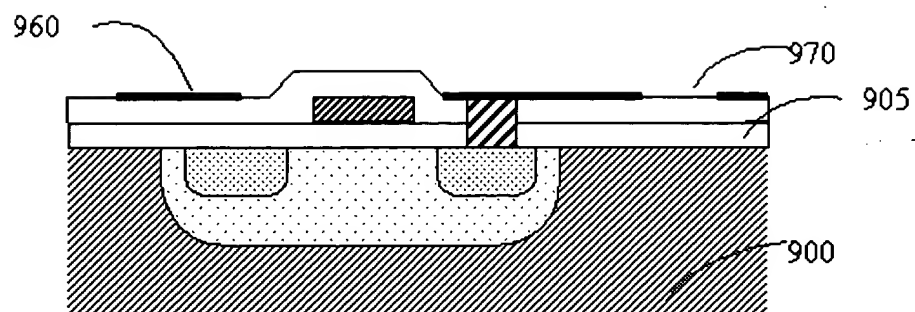


Fig. 30

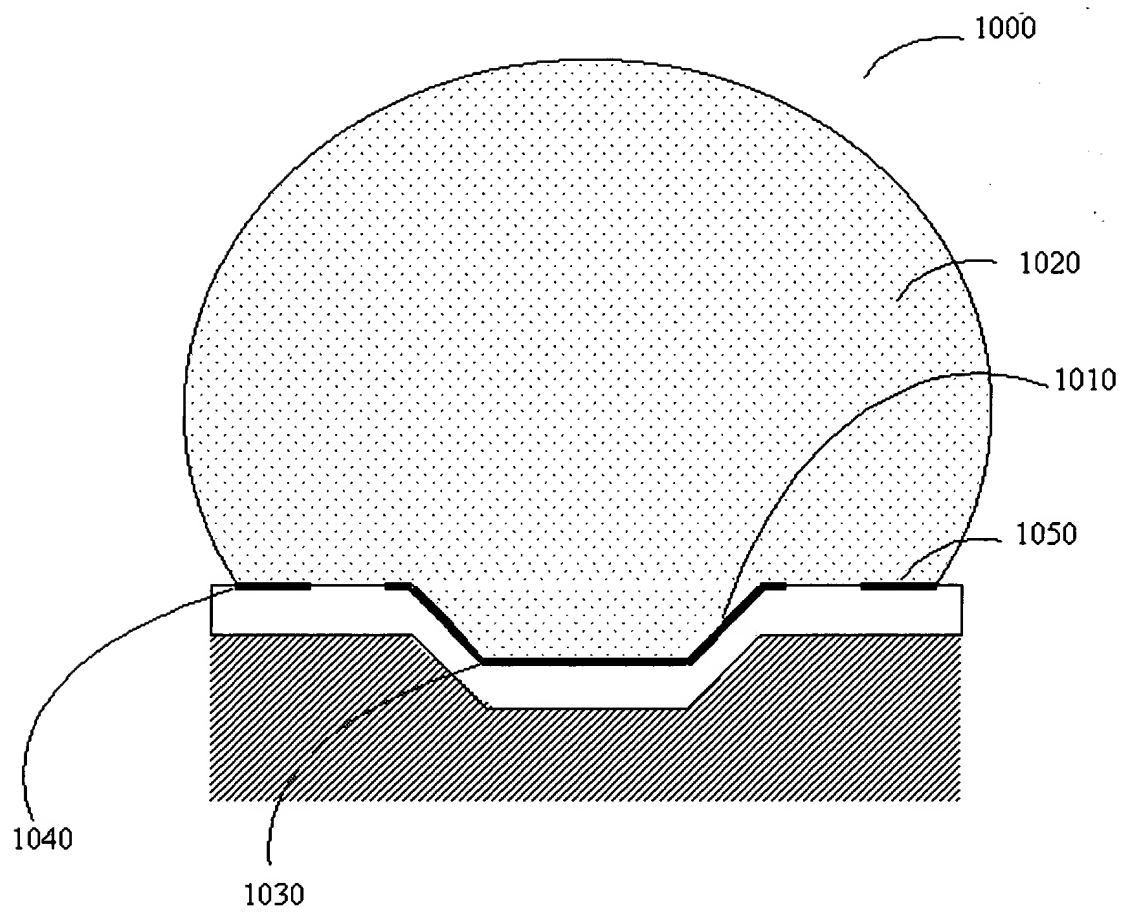


Fig. 31

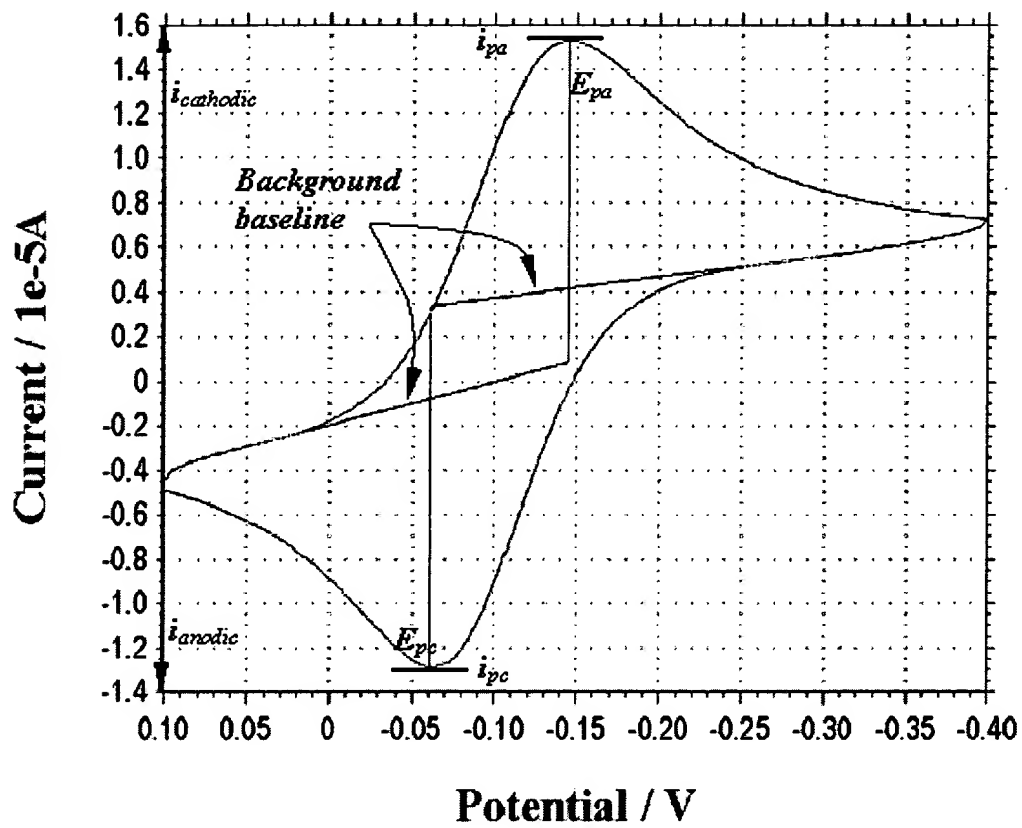


Fig. 32

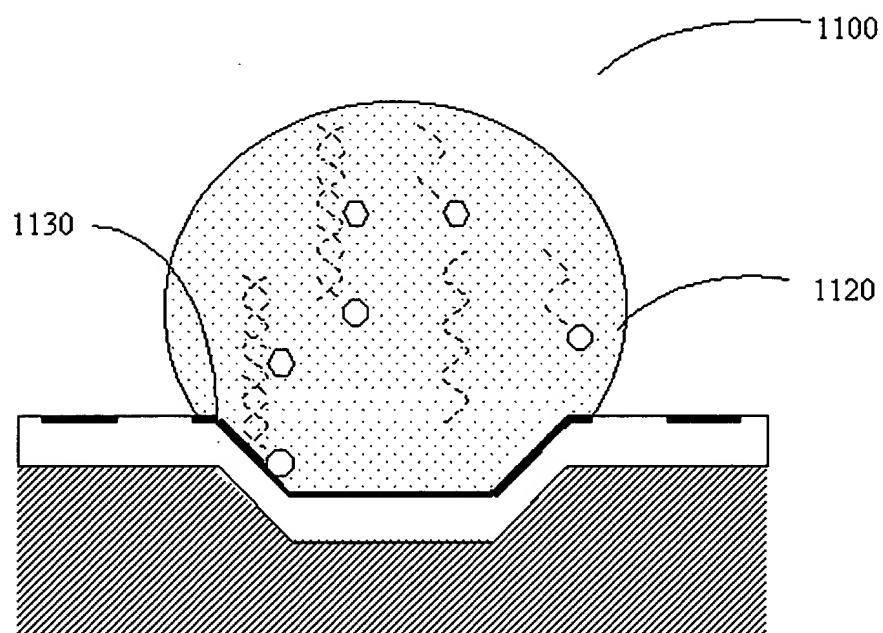


Fig. 33

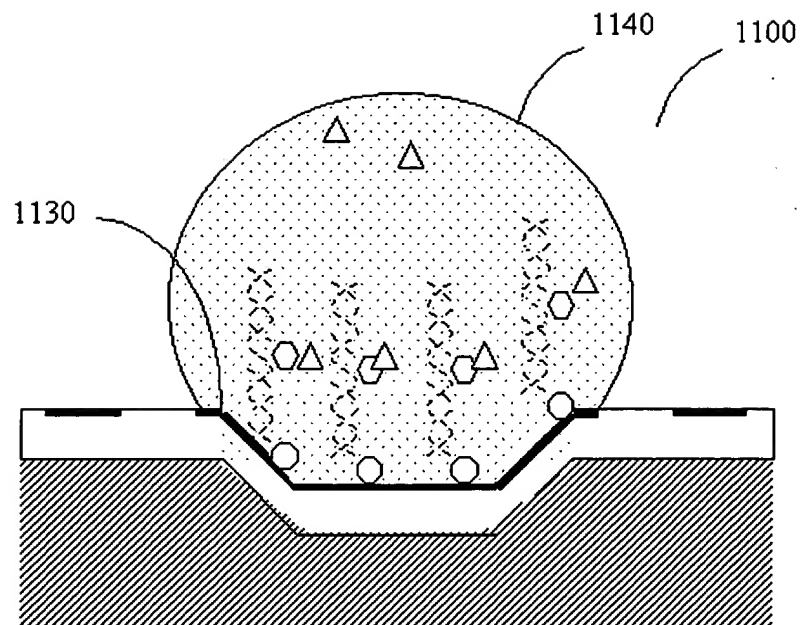


Fig. 34

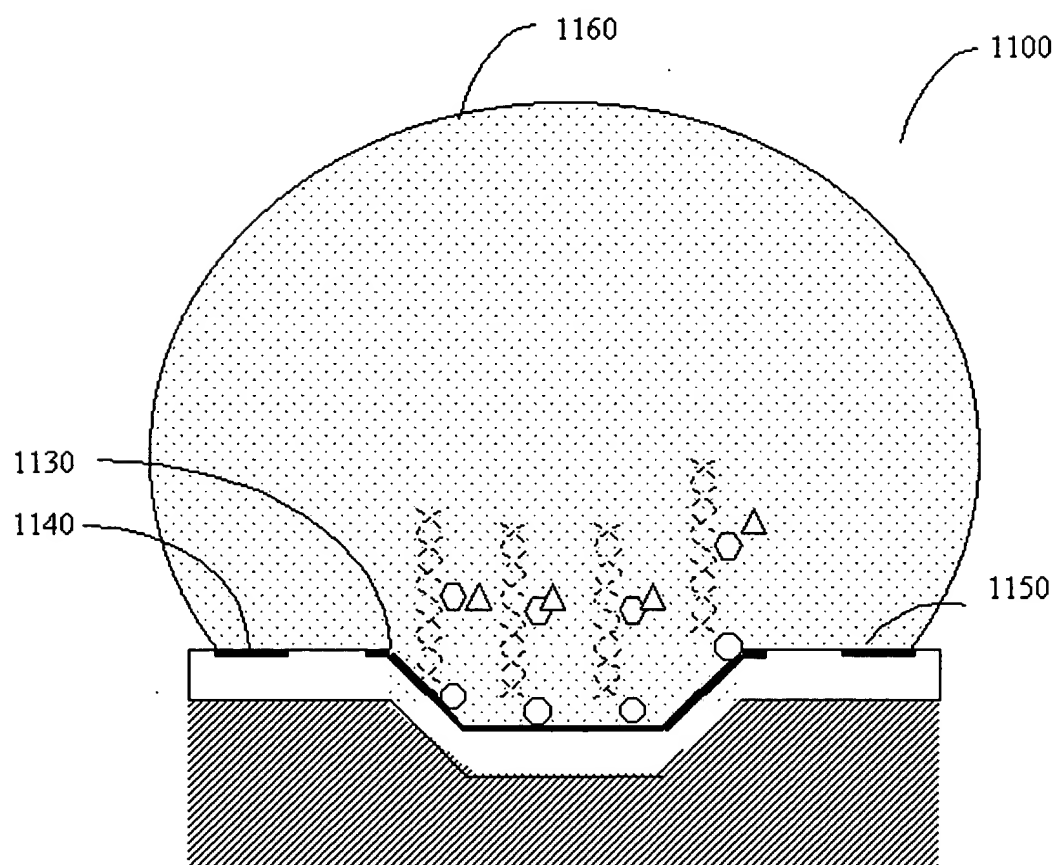


Fig. 35

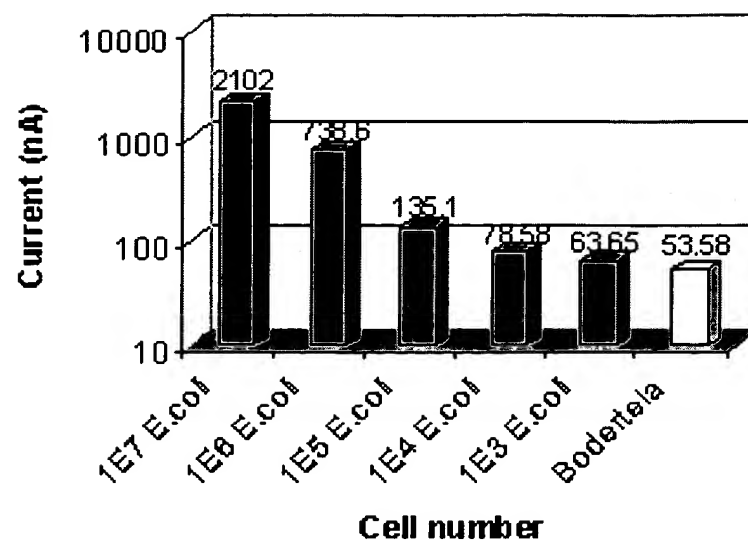
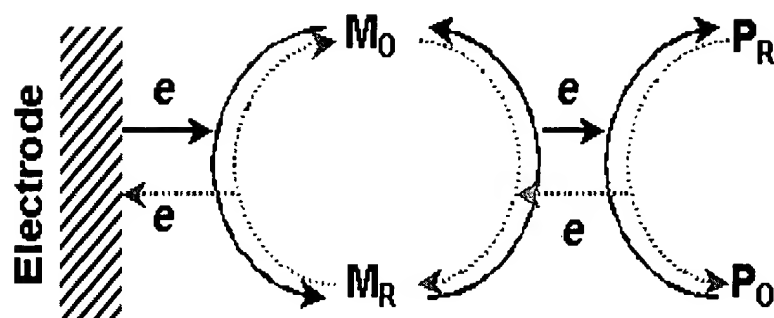


Fig. 36



P_R : Reduced Peroxidase , P_O : Oxidized Peroxidase
 M_O : Oxidized Mediator , M_R : Reduced Peroxidase

Fig. 37

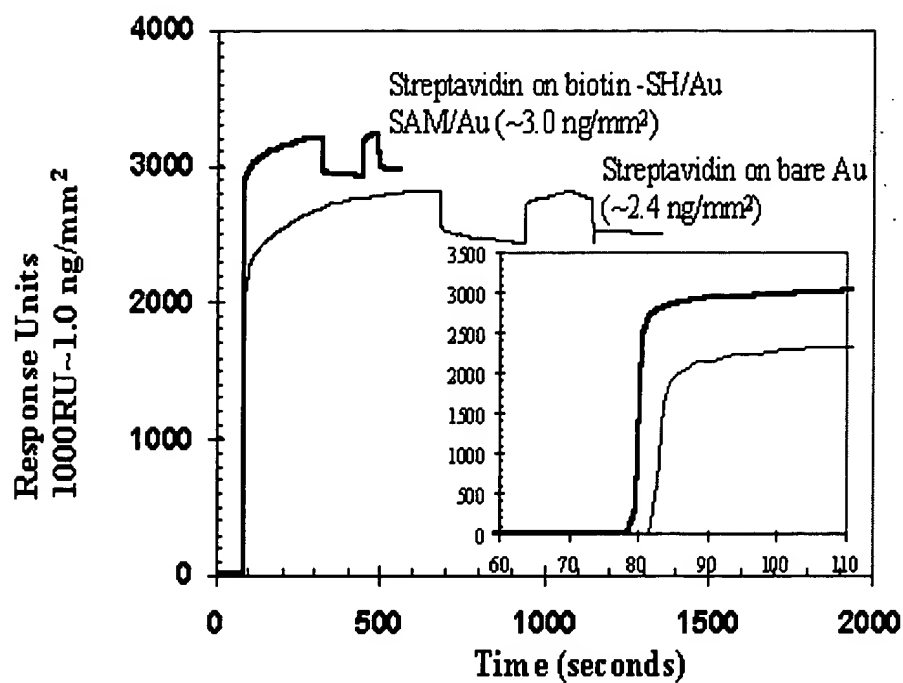


Fig. 38

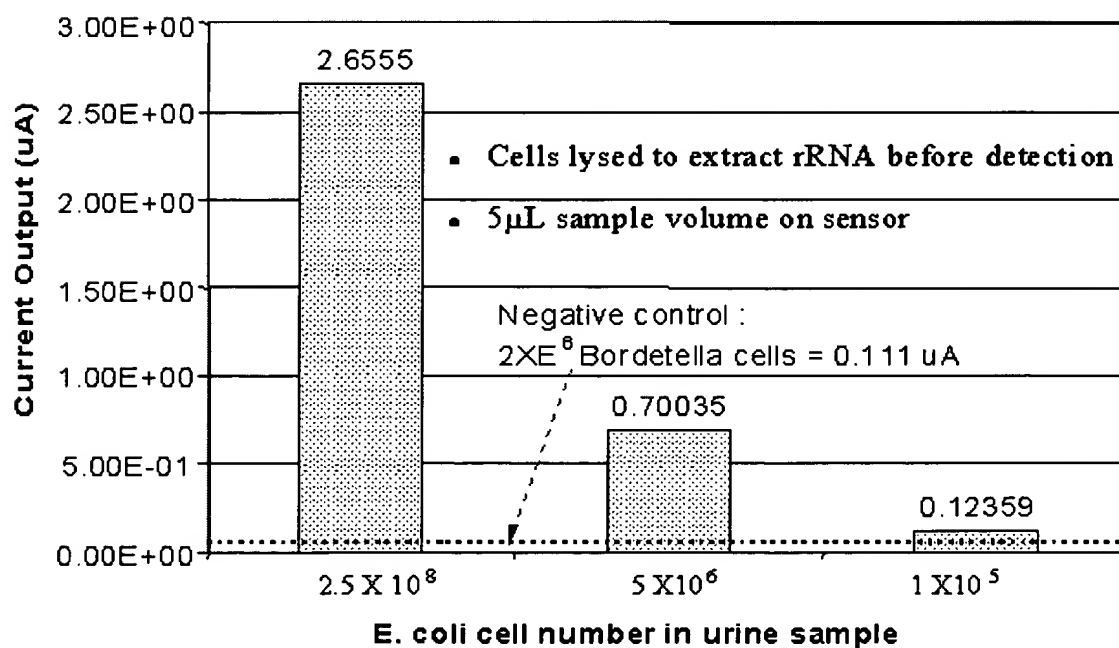


Fig. 39

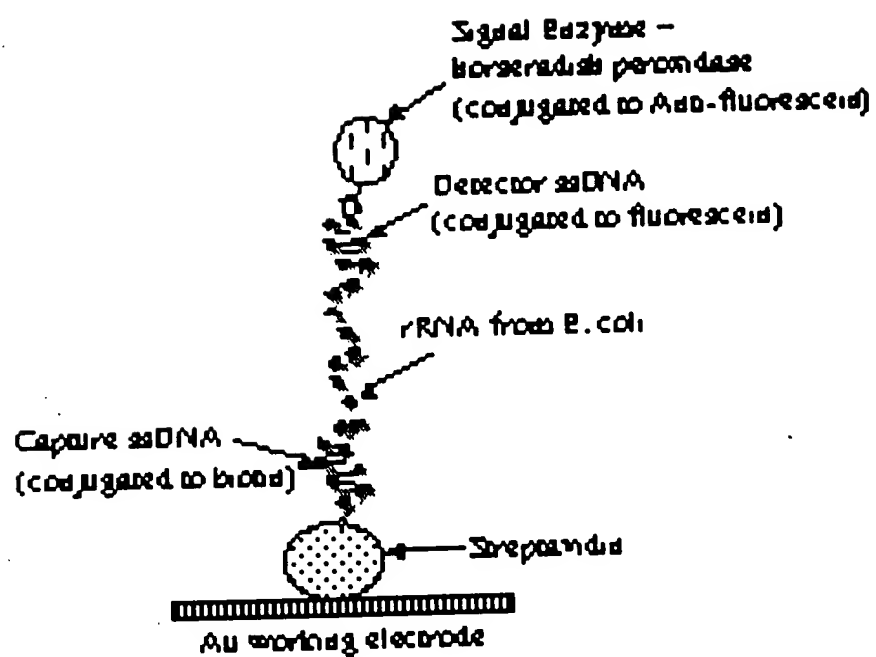


Fig. 40

Treatment Condition	Streptavidin on Bare Au ~2400 RU deposited Loss in Signal (RU)	Streptavidin on biotin-DAD-C12-SH/Au ~3000 RU deposited Loss in Signal (RU)	Streptavidin on biotin-HPDP/Au ~1700 RU deposited Loss in Signal (RU)
1.0 M KCl	0	0	0
8M Urea	280 (12%)	790 (26%)	360 (21%)
0.5% SDS	40 (2%)	390 (13%)	330 (19%)
0.1M HCl	0	0	0
0.1 M NaOH	400 (17%)	630 (21%)	400 (24%)
40% Formamide	0	0	0
			300 (18%)
			690 (40%)
			0
			200 (12%)
			0

Fig. 41

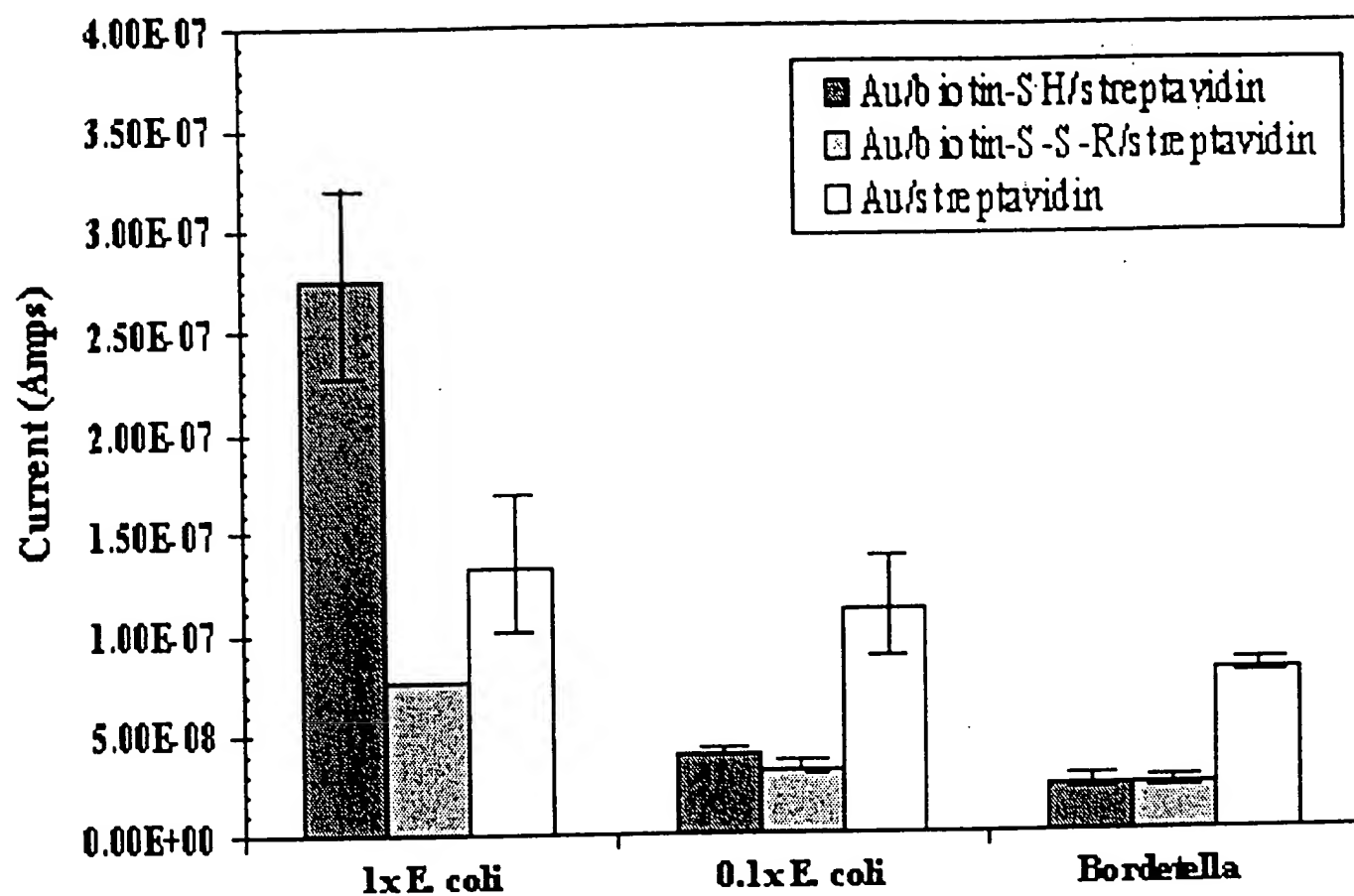


Fig. 42

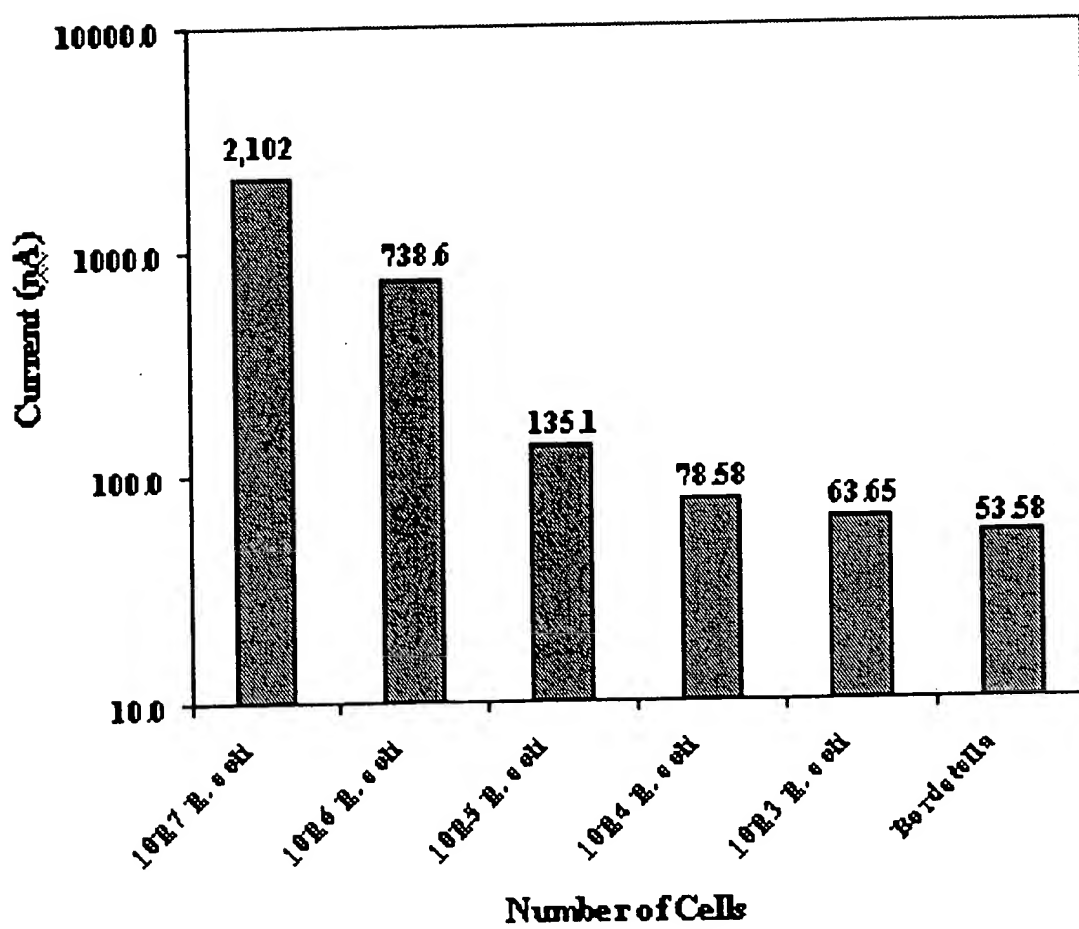


Fig. 43

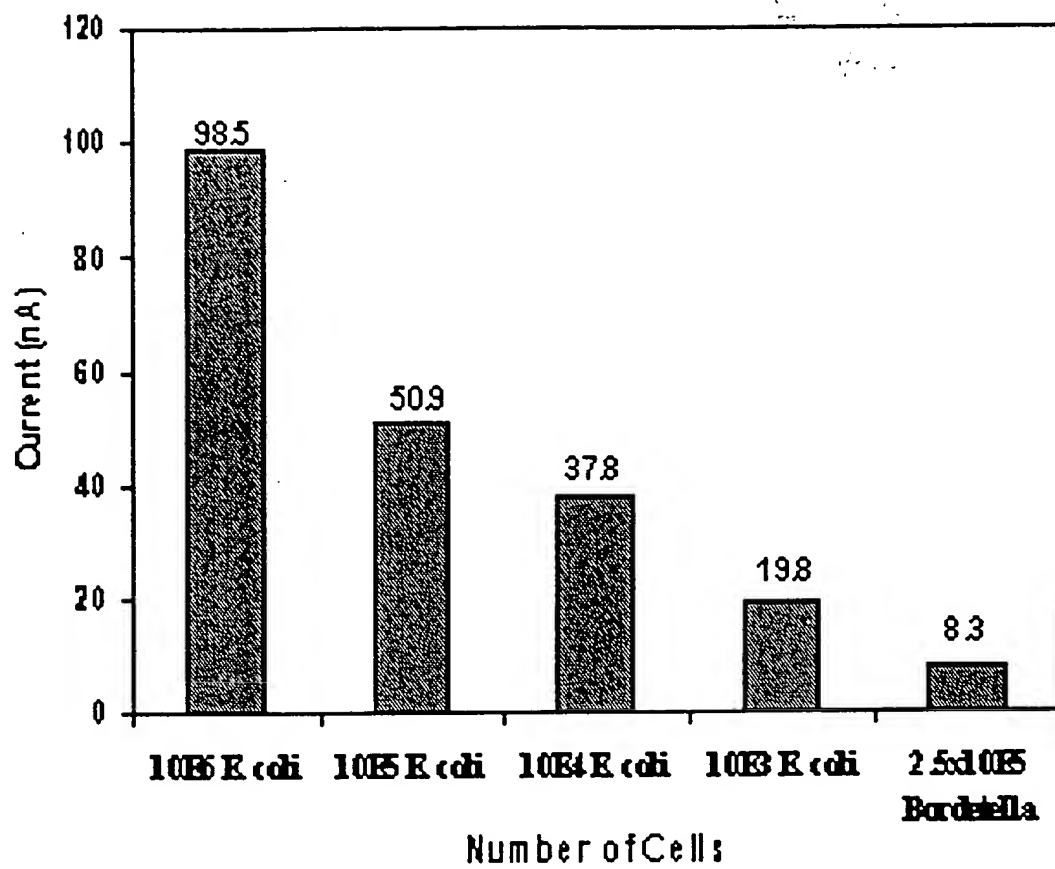


Fig. 44